AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A process for the partial purification of pond water such that said pond water can be further purified by the removal of essentially pure water without solids precipitation, comprising the steps of:

adding a first compound to a quantity of pond water to cause precipitation by reaction with [[the]] fluorides, fluorine ions or hydrogen fluoride in said pond water [[and]] to form an essentially insoluble fluoride salt;

adding a second compound to said pond water, to increase the pH of the <u>pond water solution</u>, said second compound being a base or forming a base when water is present, said second compound having a cationic portion that causes [[the]] phosphate salts thereof to remain soluble,

allowing [[the]] precipitates [[thus]] formed by adding the first and second compounds to the pond water to settle,

separating the <u>precipitates to obtain a</u> clarified liquid portion of the mixture, holding said <u>clarified</u> liquid portion of the mixture for a time period sufficient to allow [[the]] <u>any</u> silicic acid present <u>in the clarified portion</u> to decompose into <u>a</u> hydrated silicon dioxide <u>sludge</u>, separating the hydrated silicon dioxide sludge <u>and recovering a clear liquid</u>; and

adding a third compound to decrease the pH of the <u>clear liquid</u>, solution, said added third compound being an acid or acid-forming compound such that the solubility of the ions remaining in <u>solution</u> <u>clear liquid</u> is increased.

2. (Original) The process, as claimed in claim 1, wherein said first compound is a calcium containing compound selected from the group including calcium carbonate, calcium hydroxide or calcium oxide.

- 3. (Original) The process, as claimed in claim 1, wherein said first compound is a magnesium containing compound selected from the group including magnesium carbonate, magnesium hydroxide or magnesium oxide.
- 4. (Currently Amended) The process, as claimed in claim 1, wherein the quantity of said first compound added to the pond water is such that molar ratio of said cationic portion of the compound to the <u>fluorides</u>, fluorine <u>ions or hydrogen fluoride</u> in said pond water is within the range of 0.45 to 0.80.
- 5. (Currently Amended) The process, as claimed in claim 1, wherein the quantity of said first compound added to said pond water is such that molar ratio of said cationic portion of said compound to said <u>fluorides</u>, fluorine <u>ions or hydrogen fluoride</u> in said pond water is within the range of 0.50 to 0.70.
- 6. (Currently Amended) The process, as claimed in claim 1, wherein the quantity of said first compound added to said pond water is such that molar ratio of said cationic portion of the compound to said <u>fluorides</u>, fluorine <u>ions or hydrogen fluoride</u> in said pond water is within the range of 0.55 to 0.65.
- 7. (Original) The process, as claimed in claim 1, wherein said first compound is added to the pond water in essentially dry form.
- 8. (Original) The process, as claimed in claim 1, wherein said first compound is added to the pond water as a slurry or paste.
- 9. (Original) The process, as claimed in claim 1, wherein said second compound is selected from the group including sodium hydroxide and potassium hydroxide.
- 10. (Original) The process, as claimed in claim 1, wherein said second compound is ammonia.

- 11. (Original) The process, as claimed in claim 1, wherein said second compound is added to said pond water as an aqueous solution.
- 12. (Original) The process, as claimed in claim 1, wherein said second compound is added to said pond water in anhydrous or essentially anhydrous form.
- 13. (Original) The process, as claimed in claim 1, wherein said second compound is added to said pond water in sufficient quantity to increase the pH of the resulting solution to a value within the range of 4.2 to 8.0.
- 14. (Original) The process, as claimed in claim 1, wherein said second compound is added to said pond water in sufficient quantity to increase the pH of said resulting solution to a value within the range of 5.0 to 6.5.
- 15. (Original) The process, as claimed in claim 1, wherein said second compound is added to said pond water in sufficient quantity to increase the pH of said resulting solution to a value within the range of 5.5 to 6.0.
- 16. (Original) The process, as claimed in claim 1, wherein after said first compound is added to said pond water the solids thus formed are allowed to settle and are separated from the pond water, before adding the said second compound to the pond water.
- 17. (Currently Amended) The process, as claimed in claim 1, wherein after separating an essentially clear liquid the clarified liquid portion from said precipitates formed as a result of the addition of said first compound and said second compound, the clear liquid clarified liquid portion is aged for a time period within the range of 16 hours to 10 days.
- 18. (Currently Amended) The process, as claimed in claim 1, wherein after separating an essentially clear liquid the clarified liquid portion from the sludge formed as

a result of the addition of the first compound and the second compound, the clear liquid clarified liquid portion is aged for a time period within the range of 36 hours to 72 hours.

- 19. (Currently Amended) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution clear liquid to a value within the range of 2.0 to 4.0.
- 20. (Currently Amended) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution clear liquid to a value within the range of 2.5 to 3.5.
- 21. (Currently Amended) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution clear liquid to a value within the range of 2.9 to 3.1.
- 22. (Original) The process, as claimed in claim 1, wherein said third compound added to said clear liquid obtained after the separation of said hydrated silicon dioxide sludge is selected from the group including sulfuric acid, sulfurous acid, phosphoric acid, hydrochloric acid and nitric acid.
- 23. (Original) The process, as claimed in claim 1, wherein said third compound added to said clear liquid obtained after the separation of said hydrated silicon dioxide sludge is sulfuric acid.
- 24. (Original) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third acid-forming compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution to a value within the range of 2.0 to 4.0.

- 25. (Original) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third acid-forming compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution to a value within the range of 2.5 to 3.5.
- 26. (Original) The process, as claimed in claim 1, wherein after separating said hydrated silicon dioxide sludge, said third acid-forming compound is added to said clear liquid thus obtained in sufficient quantity to lower the pH of the solution to a value within the range of 2.9 to 3.1.
- 27. (Original) The process, as claimed in claim 1, wherein said third acidforming compound added to said clear liquid obtained after the separation of said hydrated silicon dioxide sludge, is selected from the group including sulfur trioxide, sulfur dioxide, hydrogen chloride and nitrogen dioxide.
- 28. (Currently Amended) A process for the partial purification of pond water, comprising the steps of:
- (a) adding a first compound to a quantity of the pond water that will react with [[the]] fluorides, fluorine ions or hydrogen fluoride in the pond water [[and]] to form an essentially insoluble fluoride salt;
- (b) adding a second compound to the pond water that is either basic or will form a base when water is present, the cationic portion of said second compound being such that [[the]] phosphate salts thereof remain soluble, separating [[the]] solid precipitates thus formed and obtaining an essentially clear liquid containing 0.5% or less solids, aging the clear liquid for a time period within the range of 16 hours to 72 hours, separating [[the]] hydrated silicon dioxide sludge formed during the aging period and recovering a clear liquid solution; and
- (c) adding a third compound that is an acid or that will form an acid in the presence of water, to the clear liquid solution thus obtained to lower the pH, such that

at least 50%, by volume, of [[the]] water present in the thus treated clear liquid solution can be removed from the clear liquid solution without additional solids precipitation.

- 29. (Currently Amended) A process for the partial purification of pond water, comprising the steps of:
- (a) adding a calcium containing compound to the pond water, selected from the group including calcium carbonate, calcium hydroxide and calcium oxide, such that the molar ratio of calcium to [[the]] fluorine in the pond water is within the range of 0.45 to 0.80;
- (b) adding a base or a compound that will form a base when water is present, selected from the group including sodium hydroxide, potassium hydroxide and ammonia, to the calcium treated pond water, in sufficient quantity to increase the pH to a value within the range of 4.2 to 8.0;
- (c) separating the sludge produced as a result of the calcium compound addition and base addition steps (a) and (b) and obtaining a clear liquid containing 0.5% or less solids by weight;
- (d) aging the clear liquid thus obtained for a time period within the range of 16 hours to 72 hours;
- (e) separating any solids formed in the liquid during the aging time and again obtaining an essentially solids free liquid; and
- (f) adding an acid, selected from the group including sulfuric acid, sulfurous acid, phosphoric acid, hydrochloric acid and nitric acid, to the <u>essentially</u> solids free liquid thus obtained, in an amount sufficient to decrease the pH to a value within the range of 2.0 to 4.0.